

NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

PTO Draftpersons review all originally filed drawings regardless of whether they are designated as formal or informal. Additionally, patent Examiners will review the drawings for compliance with the regulations. Direct telephone inquiries concerning this review to the Drawing Review Branch, 703-305-8404.

The drawings filed (insert date) 5/3/95, are
 A. not objected to by the Draftsperson under 37 CFR 1.84 or 1.152.
 B. objected to by the Draftsperson under 37 CFR 1.84 or 1.152 as indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawings must be submitted according to the instructions on the back of this Notice.

1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:
 Black ink. Color.
 Not black solid lines. Fig(s) _____
 Color drawings are not acceptable until petition is granted. Fig(s) _____
2. PHOTOGRAPHS. 37 CFR 1.84(b)
 Photographs are not acceptable until petition is granted. Fig(s) _____
 Photographs not properly mounted (must use bristol board or photographic double-weight paper). Fig(s) _____
 Poor quality (half-tone). Fig(s) _____
3. GRAPHIC FORMS. 37 CFR 1.84 (d)
 Chemical or mathematical formula not labeled as separate figure. Fig(s) _____
 Group of waveforms not presented as a single figure, using common vertical axis with time extending along horizontal axis. Fig(s) _____
 Individuals waveform not identified with a separate letter designation adjacent to the vertical axis. Fig(s) _____
4. TYPE OF PAPER. 37 CFR 1.84(c)
 Paper not flexible, strong, white, smooth, nonshiny, and durable. Sheet(s) _____
 Erasures, alterations, overwritings, interlineations, cracks, creases, and folds copy machine marks not accepted. Fig(s) 1-8
 Mylar, velum paper is not acceptable (too thin). Fig(s) _____
5. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:
 21.6 cm. by 35.6 cm. (8 1/2 by 14 inches)
 21.6 cm. by 33.1 cm. (8 1/2 by 13 inches)
 21.6 cm. by 27.9 cm. (8 1/2 by 11 inches)
 21.0 cm. by 29.7 cm. (DIN size A4)
 All drawing sheets not the same size. Sheet(s) _____
 Drawing sheet not an acceptable size. Sheet(s) _____
6. MARGINS. 37 CFR 1.84(g): Acceptable margins:
 Paper size

21.6 cm X 35.6 cm	21.6 cm X 33.1 cm	21.6 cm X 27.9 cm	21.0 cm X 29.7 cm.
(8 1/2 X 14 inches)	(8 1/2 X 13 inches)	(8 1/2 X 11 inches)	(DIN Size A4)
T .64 cm. (2")	.25 cm. (1")	.25 cm. (1")	.25cm.
L .64 cm. (1/4")	.64 cm. (1/4")	.64 cm. (1/4")	.25 cm
R .64 cm. (1/4")	.64 cm. (1/4")	.64 cm. (1/4")	1.5 cm.
B .64 cm. (1/4")	.64 cm. (1/4")	.64 cm. (1/4")	1.0 cm

Margins do not conform to chart above 476-8
 Sheet(s) _____ Top (T) _____ Left (L) _____ Right (R) _____ Bottom (B) _____

7. VIEWS. 37 CFR 1.84(h)
REMINDER: Specification may require revision to correspond to drawing changes.
 All views not grouped together. Fig(s) _____
 Views connected by projection lines or lead lines. Fig(s) _____
 Partial views. 37 CFR 1.84(h) 2

COMMENTS:

- View and enlarged view not labeled separately or properly. Fig(s) _____
- Sectional views. 37 CFR 1.84 (h) 3
- Hatching not indicated for sectional portions of an object. Fig(s) _____
- Cross section not drawn same as view with parts in cross section with regularly spaced parallel oblique strokes. Fig(s) _____
- 8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)
 Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) _____
- 9. SCALE. 37 CFR 1.84(k)
 Scale not large enough to show mechanism with crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) _____
 Indication such as "actual size" or scale 1/2" not permitted. Fig(s) _____
- 10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(l)
 Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (except for color drawings). Fig(s) 4-10
- 11. SHADING. 37 CFR 1.84(m)
 Solid black shading areas not permitted. Fig(s) _____
 Shade lines, pale, rough and blurred. Fig(s) _____
- 12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p)
 Numbers and reference characters not plain and legible. 37 CFR 1.84(p)(1) Fig(s) 4-10
 Numbers and reference characters not oriented in same direction as the view. 37 CFR 1.84(p)(1) Fig(s) _____
 English alphabet not used. 37 CFR 1.84(p)(2) Fig(s) _____
 Numbers, letters, and reference characters do not measure at least .32 cm. (1/8 inch) in height. 37 CFR(p)(3) Fig(s) 4-10
- 13. LEAD LINES. 37 CFR 1.84(q)
 Lead lines cross each other. Fig(s) _____
 Lead lines missing. Fig(s) _____
- 14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(t)
 Sheets not numbered consecutively, and in Arabic numerals, beginning with number 1. Sheet(s) _____
- 15. NUMBER OF VIEWS. 37 CFR 1.84(u)
 Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____
 View numbers not preceded by the abbreviation Fig. Fig(s) _____
- 16. CORRECTIONS. 37 CFR 1.84(w)
 Corrections not made from prior PTO-948. Fig(s) _____
- 17. DESIGN DRAWING. 37 CFR 1.152
 Surface shading shown not appropriate. Fig(s) _____
 Solid black shading not used for color contrast. Fig(s) _____

1807/435/6

Sisson
1 of 8

FIG. 1a

CELLS
WITHIN
CLINICAL
SAMPLE

STEP 1



SOLUBILIZING AGENTS
& DENATURATION
OF NUCLEIC ACID

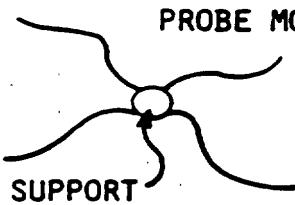
SAMPLE NUCLEIC ACID & CELLULAR DEBRI & IMPURITIES

STEP 2

RETRIEVABLE SUPPORT
WITH PROBE MOIETY

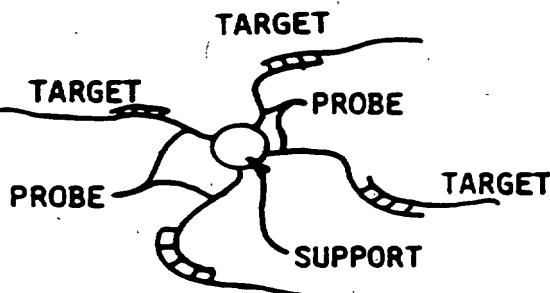
SAMPLE
NUCLEIC ACID +

STEP 3



+ CELLULAR DEBRIS
+ IMPURITIES

BINDING CONDITIONS



LARGE AMOUNT OF
DNA
RNA
CELLULAR DEBRIS
IMPURITIES

STEP 4



FIG. 1b

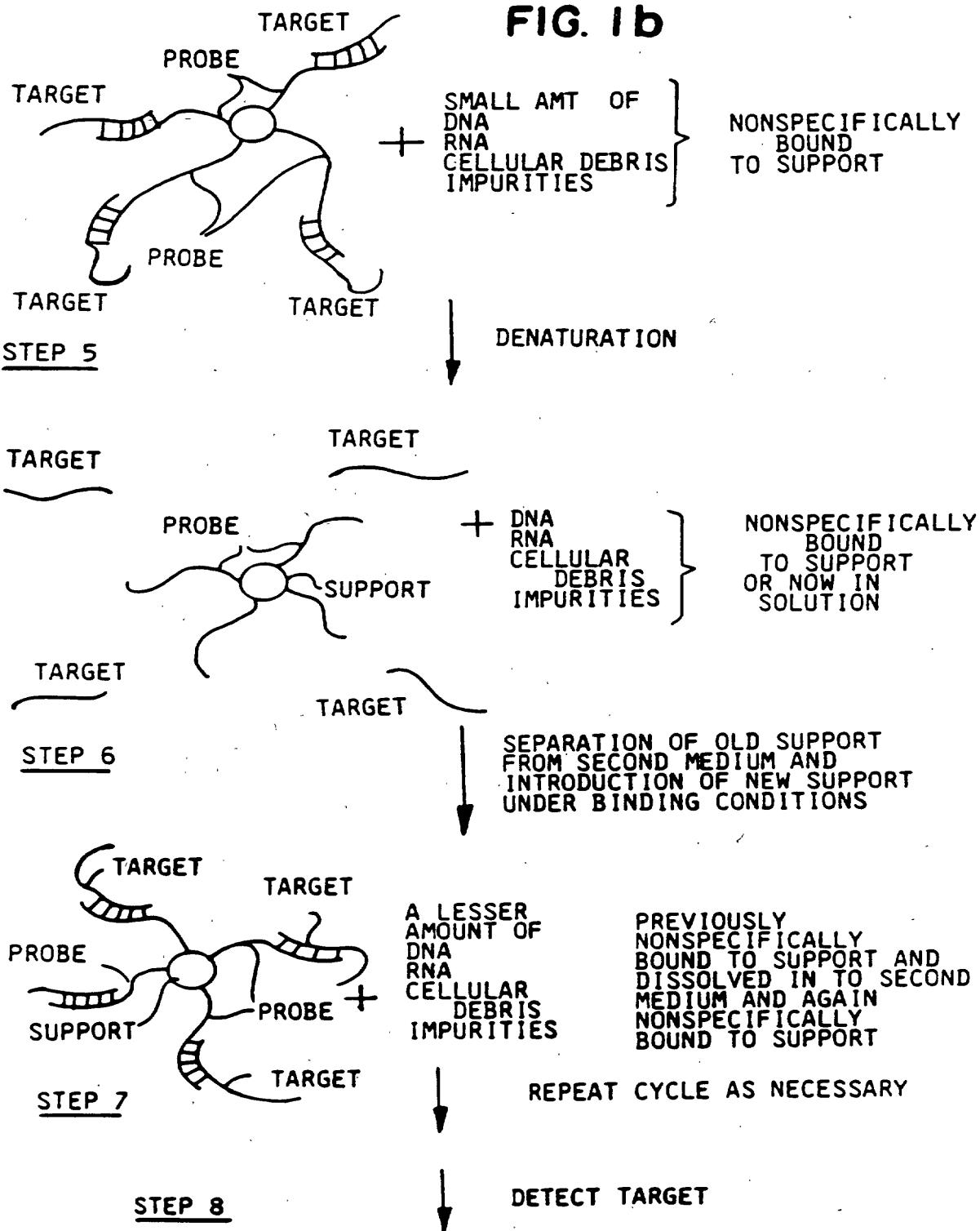
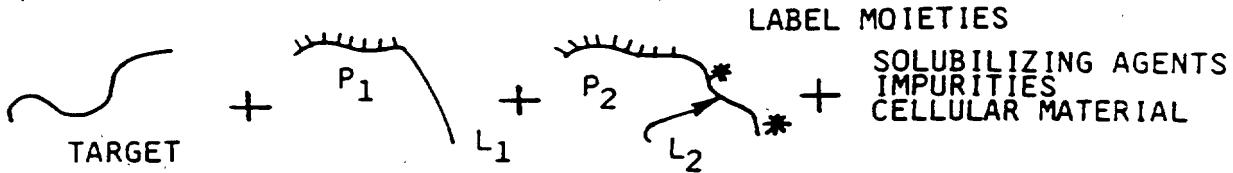


FIG. 2a

CLINICAL SAMPLE

STEP 1

SOLUBILIZING AGENTS
AND REAGENT

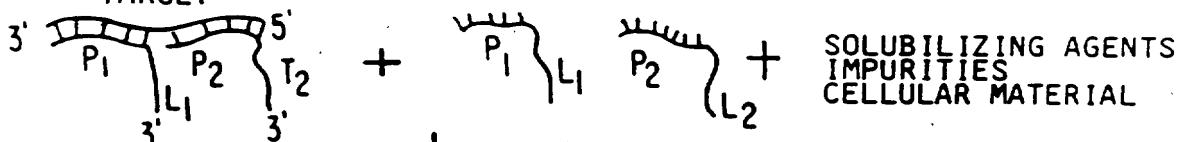


REAGENT

BINDING CONDITIONS

STEP 2

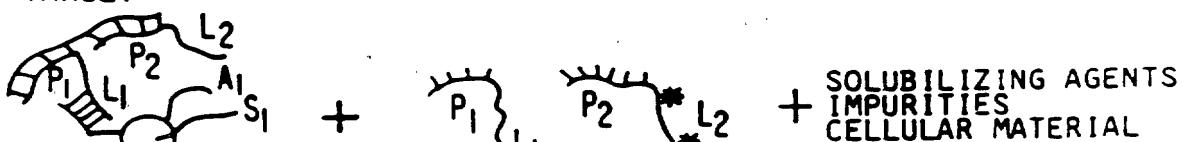
TARGET



RETRIEVABLE SUPPORT WITH
 A_1 MOIETY UNDER BINDING CONDITIONS

STEP 3

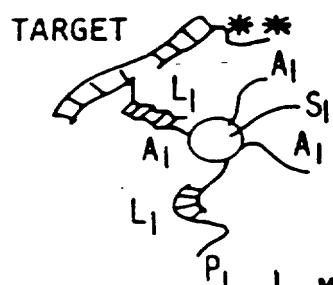
TARGET



IMMOBILIZE RETRIEVABLE SUPPORT
WASH IMMOBILIZED SUPPORT

STEP 4

FIG. 2b



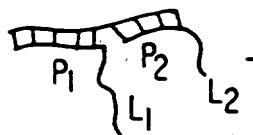
STEP 5

SEPARATE RETRIEVABLE
SUPPORT FROM
TARGET-PROBE
COMPLEX BY
DENATURATION

MONITOR
SAMPLE
FOR LABEL

STEP 6

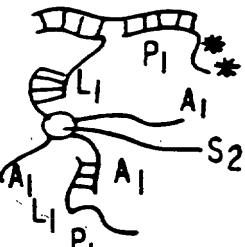
TARGET



REMOVE
RETRIEVABLE SUPPORT

STEP 7

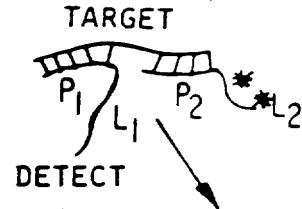
TARGET



STEP 8

REPEAT
CYCLE

MONITOR SAMPLE
FOR LABEL

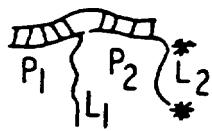


DETECT

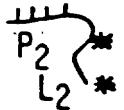
03236600-0500324

FIG. 3

TARGET



+



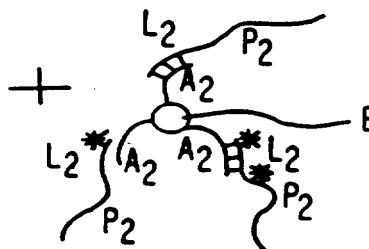
STEP 1

SUPPORT SELECTIVELY BINDING
TO SECOND LIGAND OF P_2
UNDER BINDING CONDITIONS



+

TARGET



STEP 2

REMOVE RETRIEVABLE
SUPPORT (B_1)

MONITOR
SAMPLE
FOR LABEL



FURTHER
PROCESSING

STEP 3

Target DNA in rough sample
↓ capture probe (a protein) II-238080
capture bond
Binding conditions

Step 1



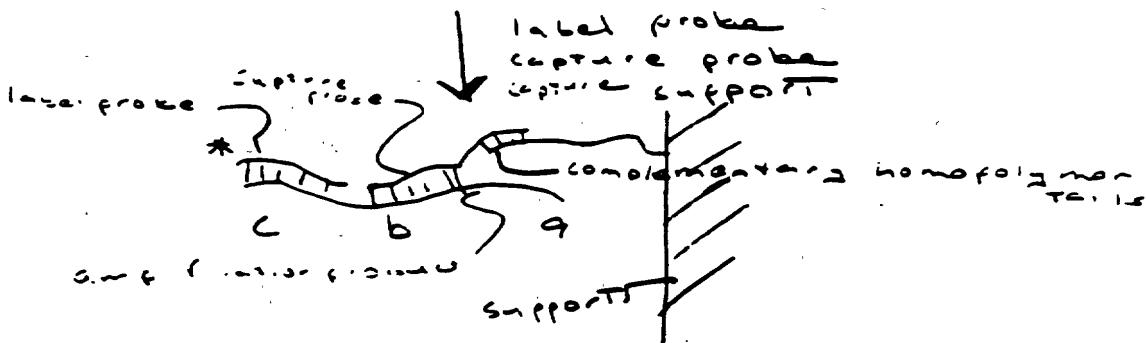
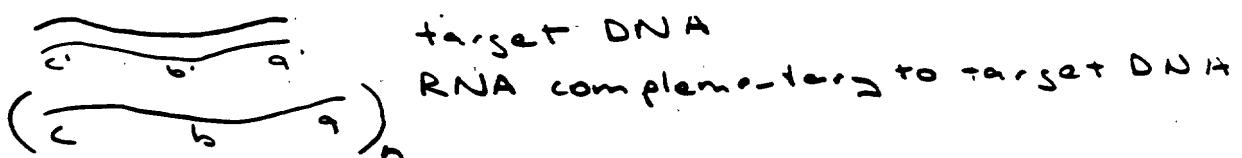
Step 2

↓ isolate bonds

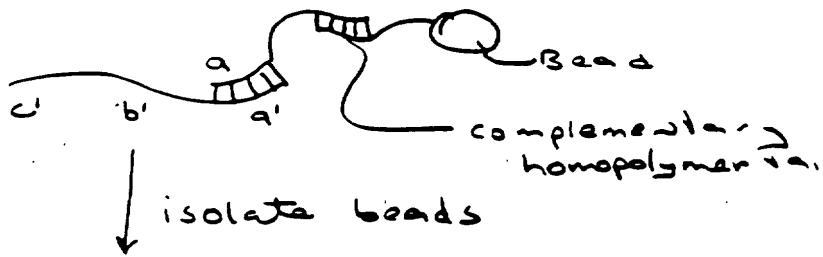
target DNA (essentially free of sample
impurities, debris, extraneous
polynucleotides)

Step 3

↓ core RNA polymerase
Low salt Buffer



Step 2



Step 2

Target DNA (substantially free of sample impurities, debris, extraneous polynucleotides)

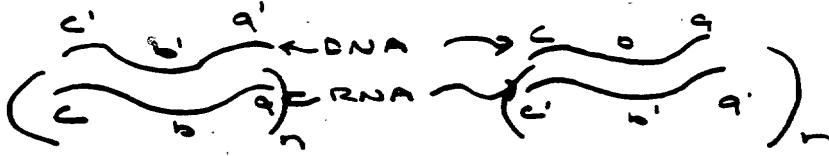
Step 3 a

↓ DNA polymerase hexamer primers



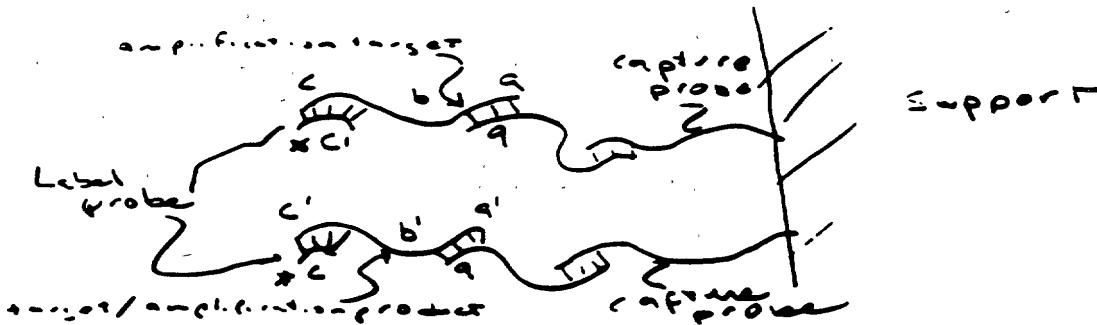
Step 3 b

↓ core RNA polymerase low salt buffer

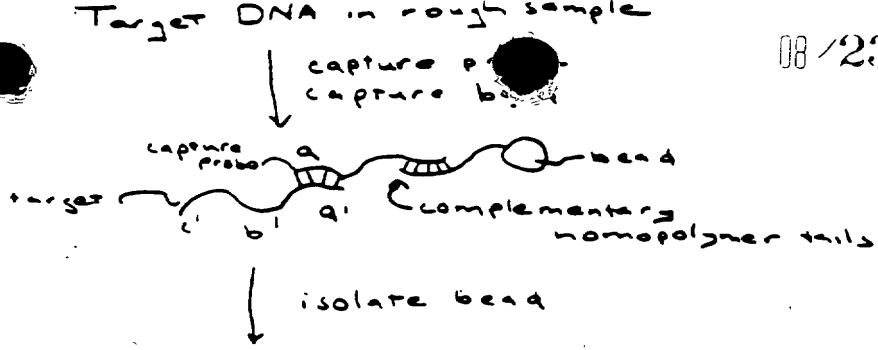


Step 4

↓ labeled probe capture probe support



Step 1

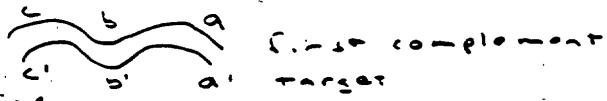


Step 2

Target DNA (substantially free of sample impurities, debris, and extraneous polynucleotides)

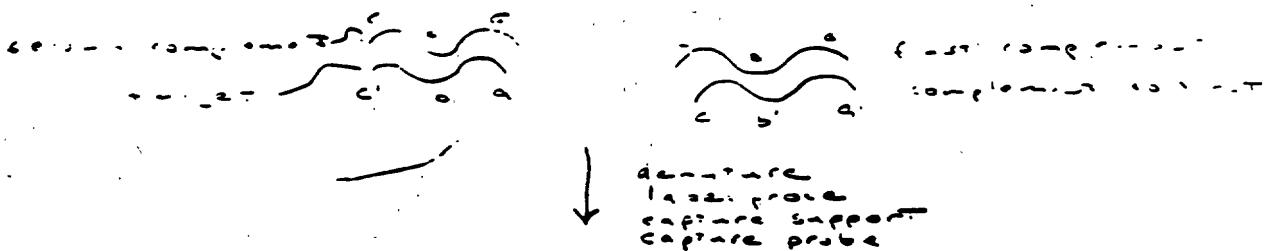
Step 3a

↓ DNA polymerase
Hot start polymerase



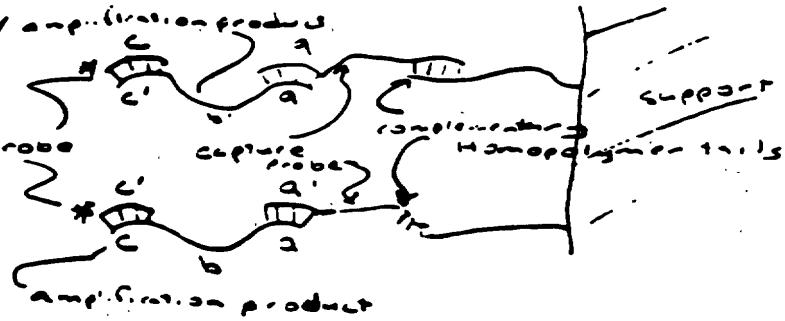
Step 3b

↓ denature
DNA polymerase



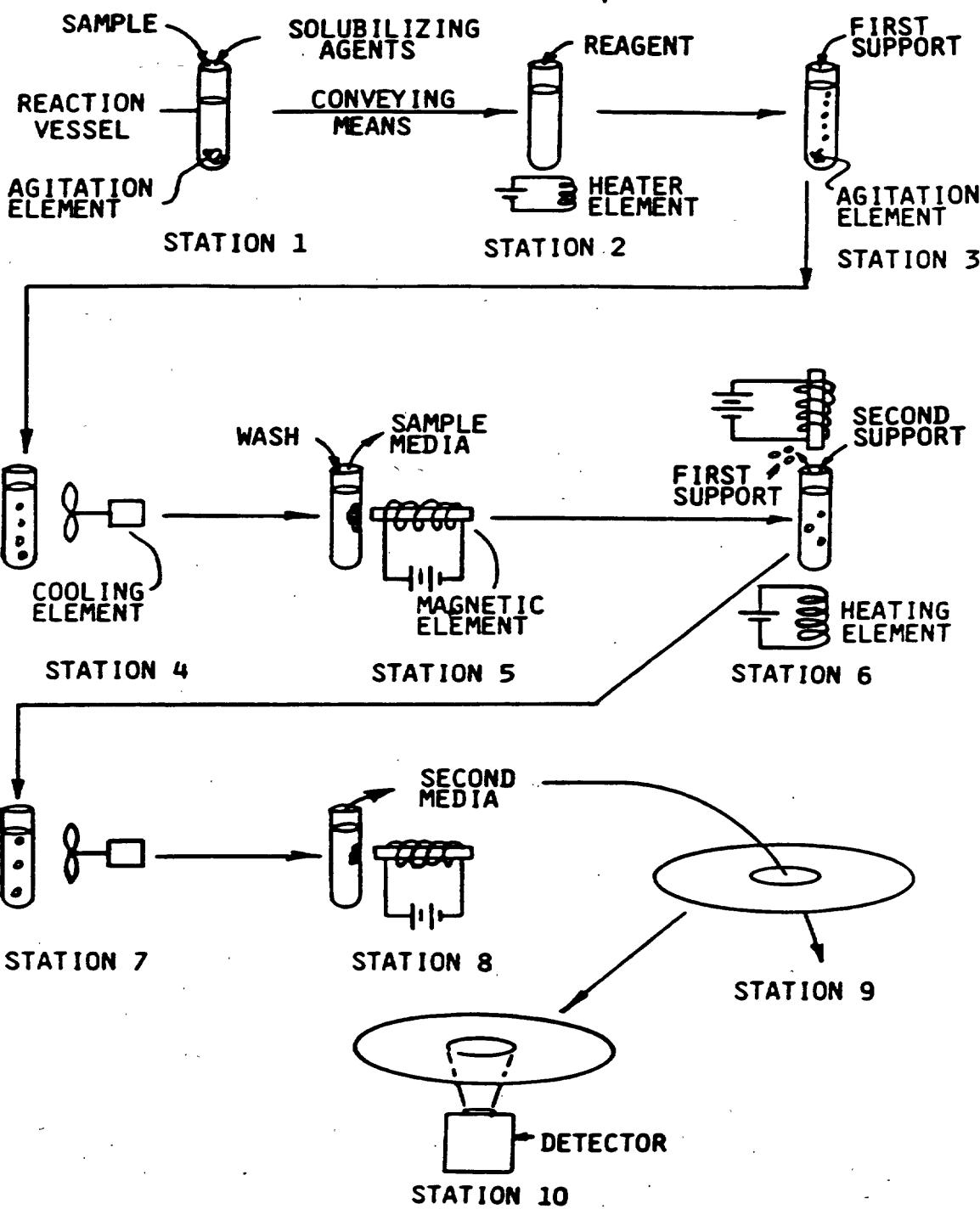
↓ denature
label probe
capture support
capture probe

target/ amplification product



08238080-0150334

FIG. 7



03233000-050304

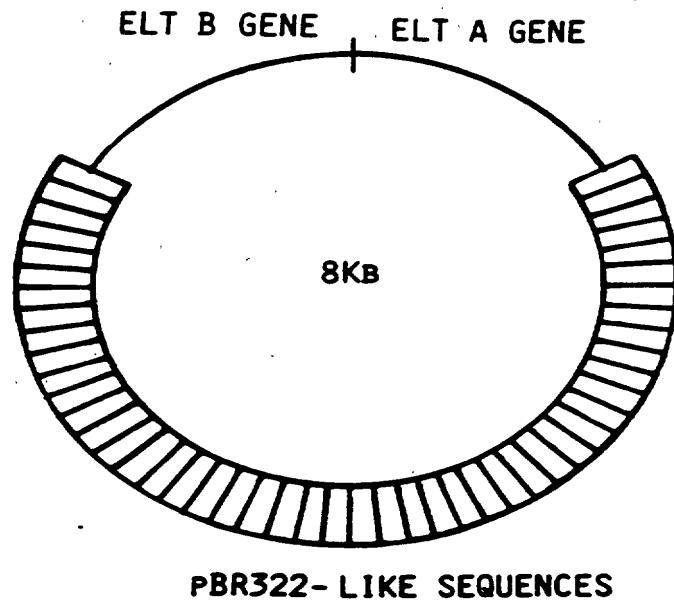


FIG. 8

032234038 - 050394